

SUBJECT CODE NO: -FNP-6074

FACULTY OF SCIENCE AND TECHNOLOGY

MSC. S.Y.(SEM-III)(NEP Pattern-2023-2024) Zoology

Examination November / December 2025

Applied Biotechnology -I SAC166023T

Time: 1:30Hours]

[Max. Marks: 45]

Please check whether you have got the right question paper.

- 1) Part A is Compulsory.
- 2) Attempt any five Questions from Part B.
- 3) Draw Diagram Whenever necessary.

Part-A

Q1. Attempt the given MCQ.

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1. What is the Primary Goal of agricultural Biotechnology?
 - a) To enhance Agricultural productivity & sustainability.
 - b) To Increase Crop Diversity.
 - c) Both a and b
 - d) None of above
2. -----is based on the Principle of Antigen antibody interaction
 - a) PCR
 - b)MRI
 - c)ELISA
 - d)GMO
3. Genome is-----
 - a) A single gene
 - b) A complete set of genetic Material in an Organism.
 - c) A process of Protein Synthesis.
 - d) All type of RNA molecule
4. PCR includes-----
 - a) Extension
 - b)Denaturation
 - c)Annealing
 - d)All of above.
5. Animals in Which their DNA manipulated to process and express an extra genes are-----
 - a) Transgenic
 - b)Vulnerable
 - c)Mutagenic
 - d) None of above

Part-B

Attempt any five of the following.

- Q2 Give detail Account on vermicomposting as a method Composting. 07
- Q3 Give an Account on PCR in Molecular Diagnosis. 07
- Q4 Describe the use of seaweeds for removal of metal pollutants. 07
- Q5 What is Nano biotechnology? Add a note on morphological forms of nanoparticles? 07
- Q6 Give an account of application & importance of Nano medicine. 07
- Q7 Give detail account on technique of nuclear transfer in animals. 07

